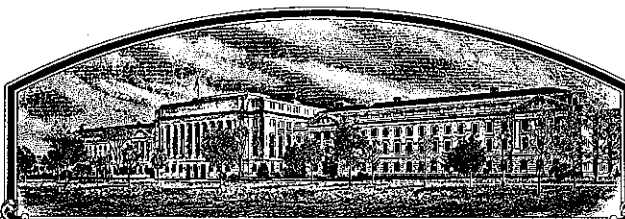


No.

9700180



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

De Kalb Genetics Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

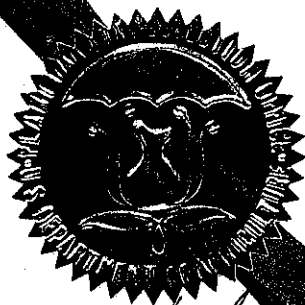
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'CX339C'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of January in the year of our Lord one thousand nine hundred and ninety-eight.

Attest:

Marsha A. Hunt

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Richard
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
DEKALB Genetics Corporation		EX634A	CX339C
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY PVPO NUMBER 9700180
3100 Sycamore Road DeKalb, IL 60115		(815) 758-3461	
7. GENUS AND SPECIES NAME		6. FAX (include area code)	F I L I N G
Glycine max L. Merr.		(815) 758-4106	DATE 26 February 1997
8. CROP KIND NAME (Common name)		FILING AND EXAMINATION FEE:	
Soybean		\$ 2450.-	
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)		DATE 2-21-97	
Corporation		CERTIFICATION FEE:	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		\$ 300.00	
Delaware		DATE Jan 5, 1998	
12. DATE OF INCORPORATION		14. TELEPHONE (include area code)	
June 15, 1988		(815) 758-3461	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS		15. FAX (include area code)	
R. Mark Lawson, Ph.D. & Robert E. Roman, Jr. DEKALB Genetics Corporation DEKALB Genetics Corporation 3100 Sycamore Rd. 3100 Sycamore Rd. DeKalb, IL 60115 DeKalb, IL 60115		(815) 758-4106	
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)			
<input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Applicant's Ownership <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository) <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)			
<input type="checkbox"/> YES (If "yes," answer items 18 and 19 below) <input checked="" type="checkbox"/> NO (If "no," go to item 20)			
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?		19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?	
<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?			
<input checked="" type="checkbox"/> YES (If "yes," give names of countries and dates) <input type="checkbox"/> NO			
U.S.A., February 1997			
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.			
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.			
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF APPLICANT (Owner(s))		SIGNATURE OF APPLICANT (Owner(s))	
Mark Lawson			
NAME (Please print or type)		NAME (Please print or type)	
R. Mark Lawson			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Director, Research	2-20-97		

EXHIBIT A

9700180

Origin and Breeding History CX339c

CX339c was selected for Brown Stem Rot tolerance, Soybean Cyst Nematode resistance, and high yield. CX339c is an F4 plant selection from the cross CX340c x CX469c.

Summer 1989	The cross CX340c x CX469c was made.
Winter 1989	F1 generation was grown (range 1, row 67). F2 generation was grown (range 67, rows 1-17).
Summer 1990	F3 generation was grown (range 432, row 25 through range 433, row 20).
Summer 1991	F4 generation was grown (range 460, row 1 through range 481, row 40).
Summer 1992	F5 generation was grown (range 326, row 38 through range 347, row 6). Range 330, row 40 was selected.
Summer 1993	F6 generation was grown.
Summer 1994	F7 generation was grown and 125 pounds of seed was produced.
Summer 1995	F8 generation was grown and 57 bushels of breeder seed was produced.
Winter 1995	F9 generation was grown.
Summer 1996	F10 generation was grown and seed was increased.

Statement of Stability and Uniformity

Soybean variety CX339c has been judged to be uniform for breeding purposes and testing after five generations of selfing. CX339c was reproduced and judged uniform and stable for an additional five generations.

Statement of Variants

CX339c shows no variants other than what would normally be expected due to environment or that would occur for almost any characteristic during the course of repeated sexual reproduction.

EXHIBIT B**Novelty Statement**

DEKALB Genetics Corporation believes that CX339c is most similar to soybean variety CX469c (PVP No. 9000006); however, CX469c is mid Group IV variety whereas CX339c is a mid Group III variety.

EXHIBIT C

97000180

OBJECTIVE DESCRIPTION OF VARIETY

Soybean Variety CX339c

APPLICANT:	DEKALB Genetics Corporation 3100 Sycamore Road DeKalb, IL 60115
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1. SEED SHAPE: Spherical
2. SEED COAT COLOR: (Mature Seed) Yellow
3. SEED COAT LUSTER: (Mature Hand Shelled Seed) Dull
4. SEED SIZE: (Mature Seed) 17.0 Grams per 100 seeds
5. HILUM COLOR: (Mature Seed) Black
6. COTYLEDON COLOR: (Mature Seed) Yellow
7. SEED PROTEIN PEROXIDASE ACTIVITY: High
8. SEED PROTEIN ELECTROPHORETIC BAND:
9. HYPOCOTYL COLOR: Green with bronze band below cotyledons
10. LEAFLET SHAPE: Ovate
11. LEAFLET SIZE: Medium
12. LEAF COLOR: Medium Green
13. FLOWER COLOR: White
14. POD COLOR: Tan
15. PLANT PUBESCENCE COLOR: Tawny
16. PLANT TYPE: Medium Bush
17. PLANT HABIT: Indeterminate
18. MATURITY GROUP: III

EXHIBIT C

CX339c

Page two.

19. DISEASE REACTION: (0=Not Tested; 1=Susceptible; 2=Resistant)**Bacterial Diseases:**

Bacterial Pustule: 0
 Bacterial Blight: 0
 Wildfire: 0

Viral Diseases:

Bud Blight: 0
 Yellow Mosaic: 0
 Cowpea Mosaic: 0
 Pod Mottle: 0
 Seed Mottle: 0

Nematode Diseases:

Soybean Cyst Nematode:
 Race(s): 3 2
 Lance Nematode: 0
 Southern Root Knot Nematode: 0
 Northern Root Knot Nematode: 0
 Peanut Root Knot Nematode: 0
 Reniform Nematode: 0
 Other:

Fungal Diseases:

Brown Spot: 0
 Frogeye Leaf Spot: 0
 Target Spot: 0
 Downy Mildew: 0
 Powdery Mildew: 0
 Brown Stem Rot: Resistant*
 Stem Canker: 0
 Pod and Stem Blight: 0
 Purple Seed Stain: 0
 Rhizoctonia Root Rot: 0
 Sudden Death Syndrome: Resistant*
 Phytophthora Rot:
 Races 1-9: 0

* DEKALB's score for Brown Stem Rot and Sudden Death
 Syndrome is 1 (on a 1-9 scale; 1=most resistant)

20. PHYSIOLOGICAL RESPONSES: (0=Not Tested; 1=Susceptible; 2=Resistant)

Iron Chlorosis on Calcareous Soil: 0
 Other: 0

21. INSECT REACTION: (0=Not Tested; 1=Susceptible; 2=Resistant)

Mexican Bean Beetle: 0
 Potato Leaf Hopper: 0
 Other: 0

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

<u>Character</u>	<u>Name of Variety</u>	<u>Character</u>	<u>Name of Variety</u>
Plant Shape	CX469c	Seed Coat Luster	CX340c
Leaf Shape	CX469c	Seed Size	CX469c
Leaf Color	CX469c	Seed Shape	CX469c
Leaf Size	CX469c	Seedling Pigmentation	CX340c

EXHIBIT C

CX339c

Page three.

23. DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	PLANT HEIGHT CM	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100 SEEDS	NO. SEEDS/ POD
				Width cm	Length cm	% Prot	% Oil		
CX339c	134	1.9	92	--	--			17.0	2-3
CX340c	134	1.5	94					16.8	2-3

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKET SERVICE

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EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) DEKALB Genetics Corporation	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER EX634A	3. VARIETY NAME CX339c
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 3100 Sycamore Road DeKalb, IL 60115	5. TELEPHONE (include area code) (815) 758-3461	6. FAX (include area code) (815) 758-4106
7. PVPO NUMBER 970018D		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.

☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

If no, give name of country _____

☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer the following:

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?

☐ YES ☐ NO If no, give name of country _____

b. If original rights to variety were owned by a company, is the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country _____

11. Additional explanation on ownership (If needed, use reverse for extra space):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-5881 (voice) or (202) 720-7808 (TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.